

MODIS TECHNICAL TEAM MEETING

August 19, 1999

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Ken Anderson, Francesco Bordi, Barbara Conboy, Al Fleig, Bruce Guenther, Gene Legg (NOAA), Ed Masuoka, Harry Montgomery, George Serafino, and Bruce Vollmer, with Deborah Howard recording the minutes.

1.0 SCHEDULE OF EVENTS

Next PI Processing Meeting (GSFC) Location TBD	September 8, 1999
Terra Launch Vandenberg Air Force Base	No earlier than October 4, 1999
Next MODIS Science Team Meeting Location TBD	Tentatively October or November 1999
AGU 1999 Fall Meeting (San Francisco, CA)	December 13-17, 1999
IGARSS 2000 Abstracts Due	December 1999
AGU 2000 Spring Meeting (Washington, DC)	May 30-June 3, 2000
IGARSS 2000 (Honolulu, HI)	July 24-28, 2000
EOS-PM Launch	December 21, 2000

2.0 MINUTES OF THE MEETING

2.1 Instrument Report

Guenther reported that thermal vacuum testing sequence 3 was completed. Although that testing is done, the instrument is in thermal vac at ambient and more testing on ADC will probably be done for FM1 at this time. He said that there was good MODIS Science Team participation in the Data Review Workshop held last Tuesday. If the analog-digital converter (ADC) bin size is at ± 1 DN, then it would probably be acceptable (science-wise), however, its not clear that it is at ± 1 DN or that it is stable. Regarding the band-to-band registration (BBR) issues, Guenther suggested that the MODIS team needs to more aggressive at validating the BBR because it could have some impact on cloud mask and on Level 1B code. Regarding Bands 32 and 23 responsivity, he said that Santa Barbara would continue analysis of these trends.

Anderson also attended the Data Review Workshop last Tuesday. He agreed

that we need to establish that we are confident that the vignetting issue or responsivity change is stable.

Salomonson summarized the three key instrument issues. In order of priority they are related to: 1) ADC bin width, 2) Band 32 and 23 responsivity, and 3) focal plane to focal plane registration.

Harry Montgomery commented that TV-2 data meets spec and that he would like to look at TV-3 data; TV-3 data has been ordered. He is optimistic about SRCA for the protoflight instrument and for FM1. The SRCA should be able to detect how well the warm and cold focal planes overlap.

Salomonson stated that the official launch readiness date is no earlier than October 4. Anderson said that there would be a decision next week on whether Terra can launch with the present engines.

2.2 MODIS Level 1 Integration

Bordi reviewed the summary status report on MODIS Level 1 Integration dated August 19, 1999 (Attachment 1). L1A and Geolocation (PGE01) is in Ops at the GSFC DAAC and ready for launch. He said the MOSS-3 test is scheduled for the end of September. MOSS-3 should be able to test at-launch Level 1 PGE's by then; the DAAC plans to promote the PGE's to Ops using Drop 5A.01 in time for MOSS-3. Bordi stated that Drop 5A.01 seems to be on track.

Bordi then reviewed MODIS Level 1 Integration Issues (see Attachment 1). Some of the open issues should be resolved when the Drop 5A.01 patch that is due from ECS at the end of August is delivered. For example, Issue #1.1 regarding production plan failures when fractured data is received from EDOS still is open because the fix for that problem is to be delivered as part of Drop 5A.01. Nominally, the data will come over from EDOS in 2-hour chunks on 2-hour boundaries; currently it is piecemeal. Issue #7 regarding a MCST request for ECS to generate a new ESDT for Level 1B still is open. Although the request for an ESDT change has been submitted, it is waiting for a CCR. Issue #8 is closed; MCST received the quick-look (EDS) data yesterday.

Salomonson asked about the data policy for sharing with industry. Masuoka replied that the DAAC's would distribute MODIS software to those who order it.

2.3 GDAAC

Vollmer reviewed the GDAAC Notes for MODIS Technical Team Meeting 08-19-1999 (Attachment 2). Masuoka asked what test data the DAAC needs for PGE02 and Vollmer replied that a single 5-minute granule would work. Vollmer is working with Al Fleig on that. Salomonson asked about the status of PGE03. Vollmer replied that the DAAC has done all they can on that until Drop 5A.01. Drop 5A.01 is due from ECS on August 30.

2.4 SDST

Masuoka said that he has a meeting with ESDIS tomorrow to resolve the product insert issues and schedule. He briefly reviewed the weekly Launch Ready PGE

status chart dated 8/19/99 (Attachment 3).

The group briefly discussed producing quick early images. Masuoka said that we could use Level 1A data and some image processing techniques to produce nice looking scenes soon after launch. Salomonson commented that he would like to see early MODIS images shortly after launch, for example, the East Coast of the U.S.

2.5 NOAA

Gene Legg reported that he and Al Fleig met this morning to compare notes and look for pitfalls in the NOAA system regarding MODIS data. Legg said that NOAA receives raw buffer data and then converts it to Level 0 data. He said they have been using EDOS data and would like to use some simulated MODIS test data.

2.6 MAST

Conboy and Salomonson agreed to discuss a date for the next science team meeting at the tech team meeting next week (at the end of August). Salomonson said that we may have more information on a Terra launch date by then. He suggested the Rancho Santa Barbara Marriott in Buellton, California as a potential meeting location to coordinate with the Terra launch. Conboy suggested that Michael Hohner present a 10-minute demonstration of the new MODIS Instrument News (MIN) interface at the next tech team meeting and Salomonson agreed.

3.0 ACTION ITEMS

3.1 Action Items Carried Forward

1. Legg: Find out when and how NASA MODIS representatives will be integrated into the NOAA review process and report on status to the MODIS Technical Team. NOAA has agreed to have MODIS representatives serve on the NESDIS data product review boards. However, MODIS representatives have not yet been invited to participate in an advisory panel.

Status: This item remains open.

2. Murphy and Conboy: Inputs for the EOS Data Products Handbook PM-1 Volume 2 were due to Barbara Conboy by June 17, 1999.

Status: This item remains open. Conboy is awaiting final corrections/input from Bob Murphy.

3. Hohner and Howard: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item is in progress. Completion is expected by mid-August.

4. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

3.2 Closed Action Items

1. Masuoka and Kempler: Discuss with Mike Moore the resolution of issues regarding production plan failures at the DAAC when fractured data is received from EDOS and related ECS/DAAC issues.

Status: This item is closed. It will be fixed with the 8/30 patch to 5.A as noted above.